AUTODOC CLUB

How to change engine oil and filter on **Mercedes W204** – replacement guide

VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
MERCEDES-BENZ Sprinter 3.5-T Platform/Chassis (W906) 313 CDI 2.2 4x4 (906.131, 906.133, 906.135), MERCEDES-BENZ C-Class T-modell (S203) C 220 CDI (203.208), MERCEDES-BENZ E-Class T-modell (S210) E 270 T CDI, MERCEDES-BENZ E-Class Saloon (W210) E 270 CDI (210.016), MERCEDES-BENZ C-Class Saloon (W202) C 220 CDI (202.133), MERCEDES-BENZ C-Class T-modell (S202) C 220 T CDI (202.193), MERCEDES-BENZ E-Class Saloon (W210) E 220 CDI (210.006), MERCEDES-BENZ E-Class T-modell (S210) E 220 T CDI (210.206), MERCEDES-BENZ E-Class Saloon (W210) E 200 CDI (210.007), MERCEDES-BENZ C-Class Saloon (W202) C 200 CDI (202.134), MERCEDES-BENZ C-Class T-modell (S202) C 200 T CDI (202.194), MERCEDES-BENZ E-Class T-modell (S211) E 220 T CDI, MERCEDES-BENZ E-Class Saloon (W211) E 220 CDI, MERCEDES-BENZ V-Class (W638/2) V 200 CDI (638.294), MERCEDES-BENZ V-Class (W638/2) V 220 CDI (638.294), (+ 170)

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – MERCEDES W204. TOOLS YOU MIGHT NEED:

- Wire brush
- All-purpose cleaning spray
- Torque wrench
- Drive socket # 13
- Torx bit E11
- Oil filter cup socket 76-14F
- Ratchet wrench
- Flat screwdriver
- Funnel
- Oil drain pan
- Fender cover

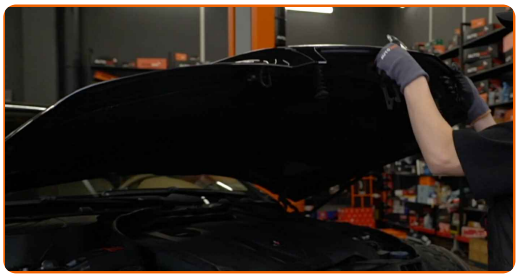
BUY TOOLS

Replacement: engine oil and filter – Mercedes W204. Tip from AUTODOC:

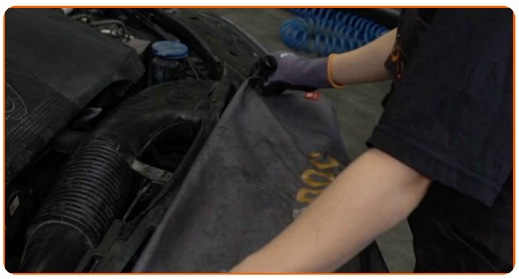
- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- Please note: all work on the car – Mercedes W204 – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



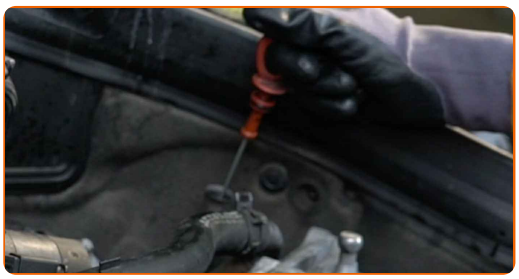
3 Remove the engine cover.

AUTODOC recommends:

- Replacement: engine oil and filter – Mercedes W204. Do not use excessive force when removing the part as this may damage it.

4 Unscrew the oil filler plug.

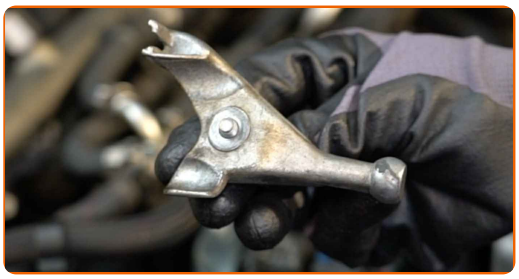
5 Pull up the oil dipstick.



6 Clean the oil filter housing cap. Use all-purpose cleaning spray.

7 Unscrew the bracket fastener. Use Torx E11. Use a ratchet wrench.

8 Remove the bracket.

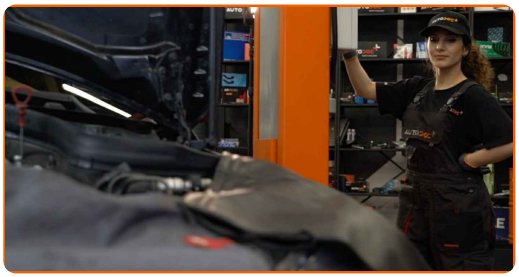


9 Unscrew the filter housing cap together with the old filter element. Use the 76-14F socket. Use a ratchet wrench.

10 Take the oil filter out of its housing.

11 Put the old oil filter in the container.

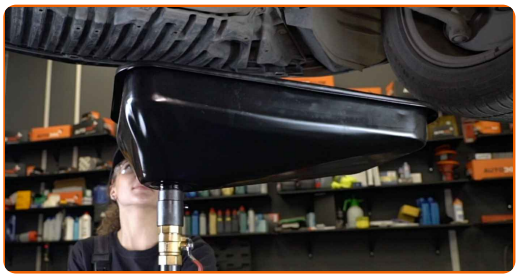
12 Lift the car using a jack or place it over an inspection pit.



AUTODOC recommends:

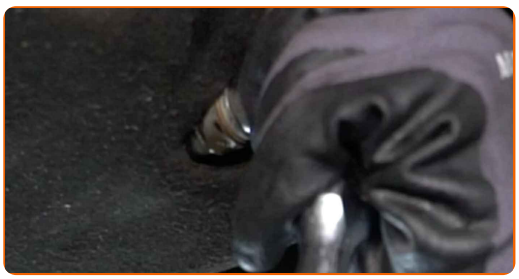
- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.

13 Put a waste oil container with at least 7 l capacity under the drainage hole.



14 Clean the area of the oil pan drainage hole. Use a wire brush. Use all-purpose cleaning spray.

15 Unscrew the drain plug. Use a drive socket #13. Use a ratchet wrench.



16 Drain the used oil.

Replacement: engine oil and filter – Mercedes W204. Tip from AUTODOC experts:

- Caution! The oil may be hot.
- Wait until the oil has completely drained from the drainage hole.

17 Remove old o-rings from the oil filter cover. Use a flat screwdriver.

18 Clean the oil filter housing cap. Use all-purpose cleaning spray.

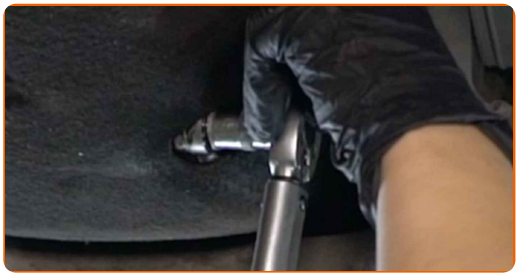
19 Install new O-rings and a new oil filter to their mounting seats on the filter cover.

Please note!

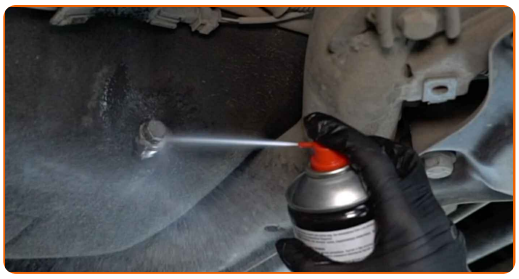
- Make sure to install the filter correctly. Don't mix up the sides of the part.

20 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.

21 Screw in the new drainage plug and tighten it. Use a drive socket #13. Use a torque wrench. Tighten it to 30 Nm torque.



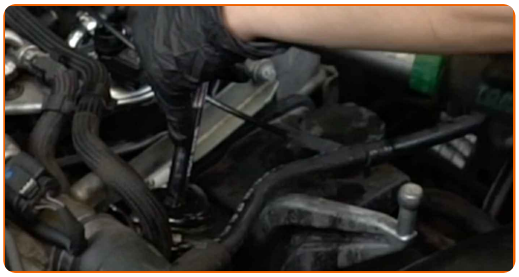
22 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



23 Lubricate the rubber seal of the new filter with a little amount of fresh oil.

24 Install the cover of the oil filter housing and screw it on.

25 Tighten the oil filter cap. Use the 76-14F socket. Use a torque wrench. Tighten it to 25 Nm torque.

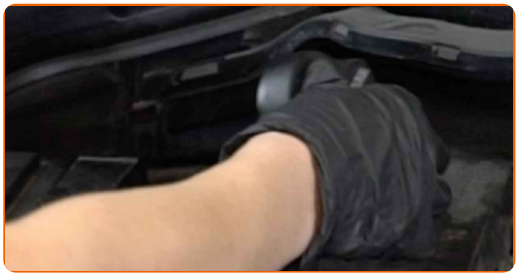


26 Install the bracket.

27 Screw in the bracket fastener. Use Torx E11. Use a ratchet wrench.

28 Lower the car.

29 Remove the oil filler cap.



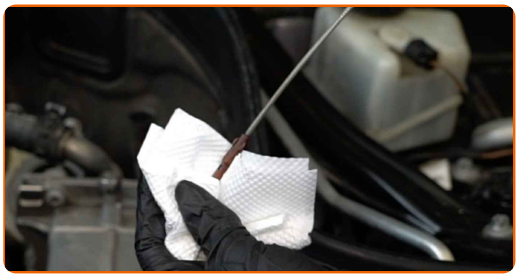
30 Insert the funnel.

31 Pour oil into the engine through the filler. Required amount of oil: 6.5 l.

Replacement: engine oil and filter – Mercedes W204. Tip from AUTODOC:

- Use the oil recommended by the manufacturer.

32 Check the oil level using the dipstick. Top up oil if necessary.



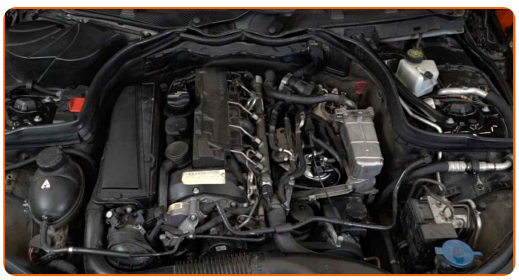
Please note!

- The oil level should be between the Min and Max marks.

33 Install the oil filler cap.

34 Tighten the oil filler cap.

35 Run the engine for a few minutes.

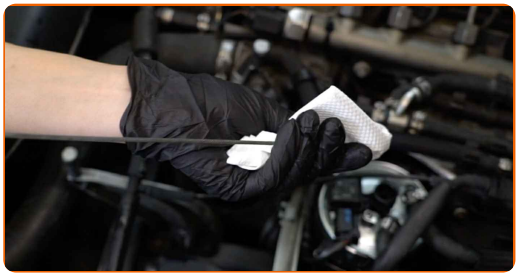


36 After the oil pressure warning light goes out, stop the engine.

AUTODOC recommends:

- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.

37 Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.
- Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

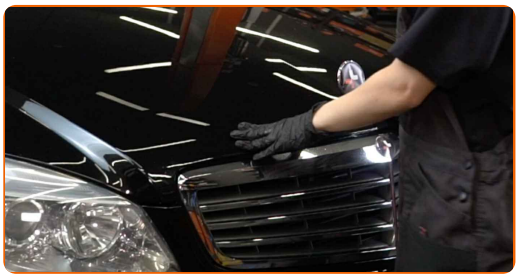
38 Install the engine cover and secure it.

AUTODOC recommends:

- Replacement: engine oil and filter – Mercedes W204. Do not use excessive force during installation. This may damage the part.

39 Remove the fender protection cover.

40 Close the hood.



Replacement: engine oil and filter – Mercedes W204. AUTODOC recommends:

- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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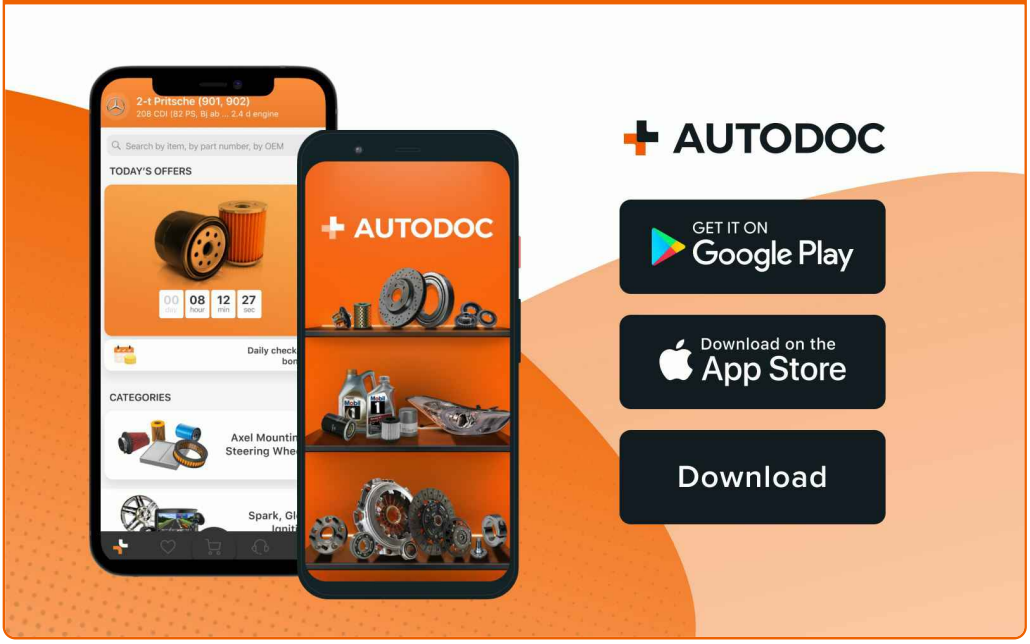

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